

DOT PAT - 4098960

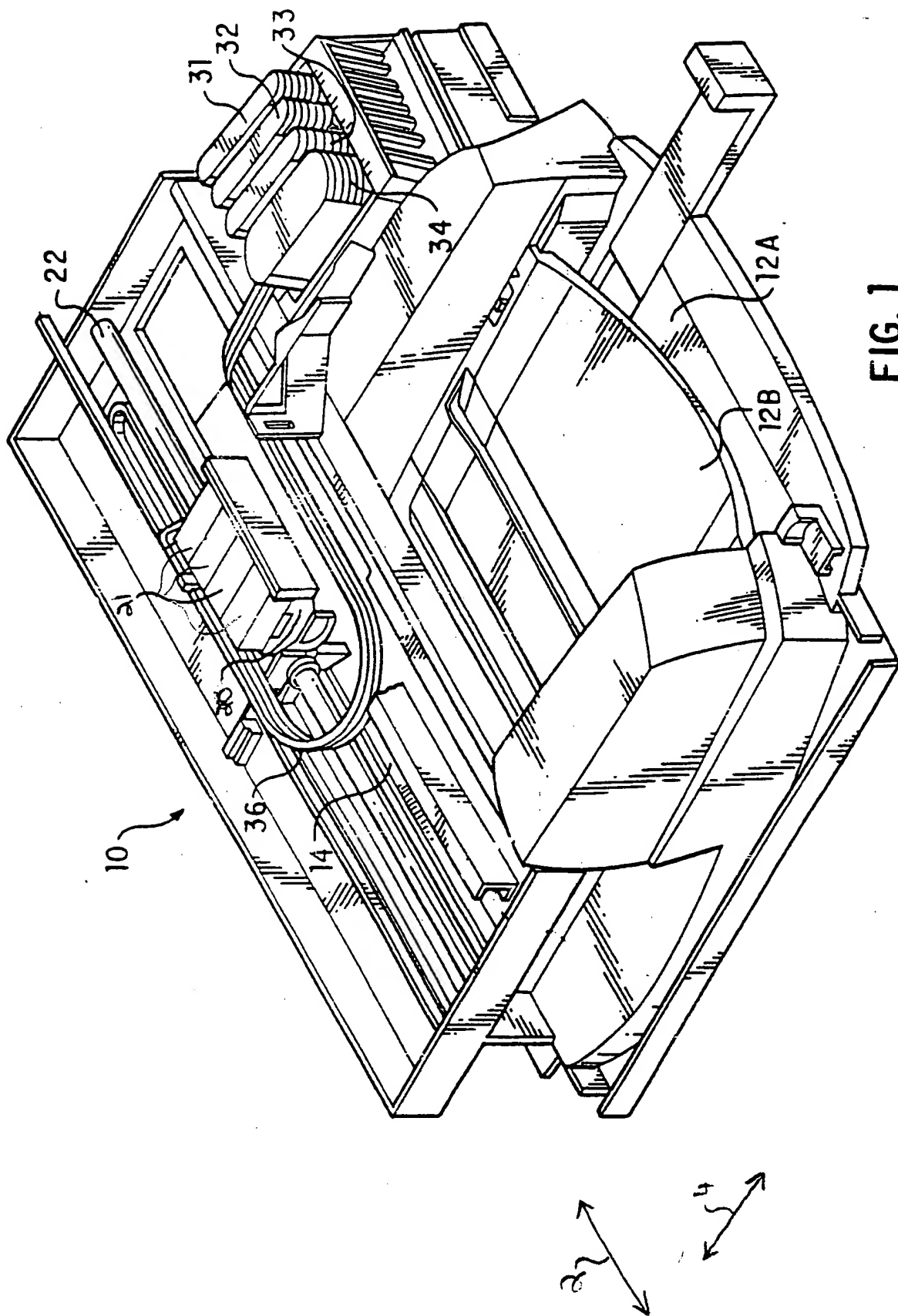


FIG. 1

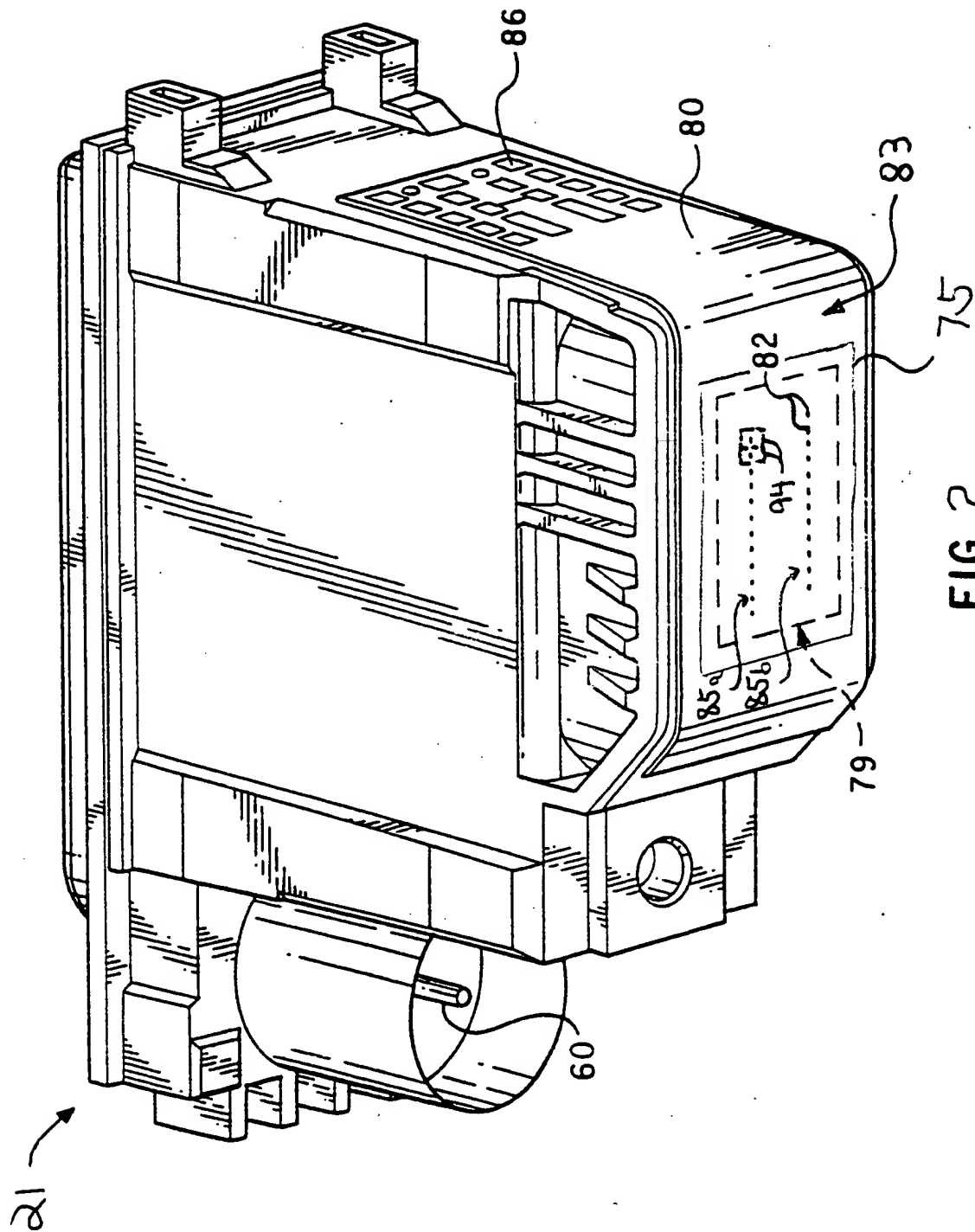


FIG. 2

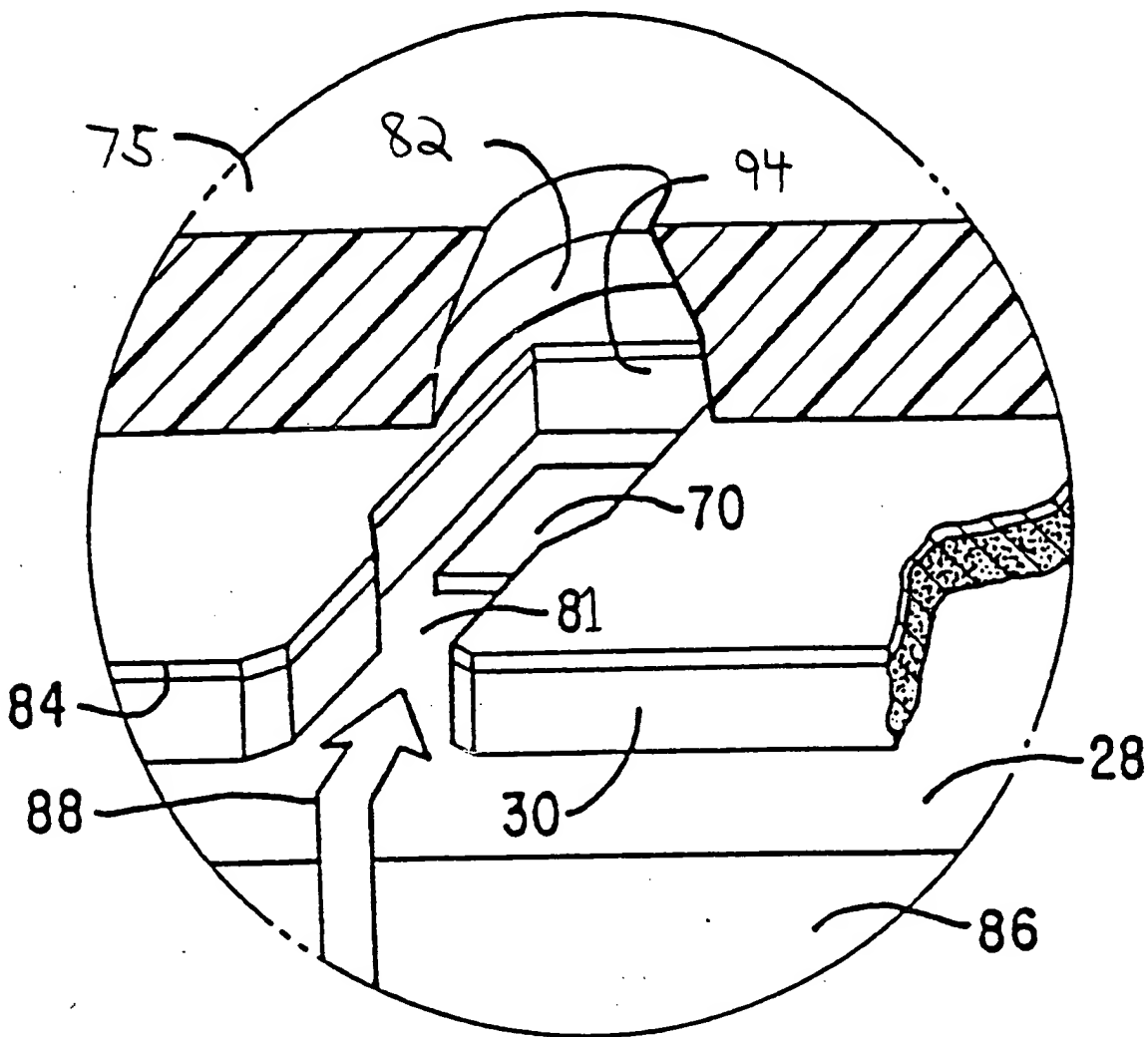


FIG. 5

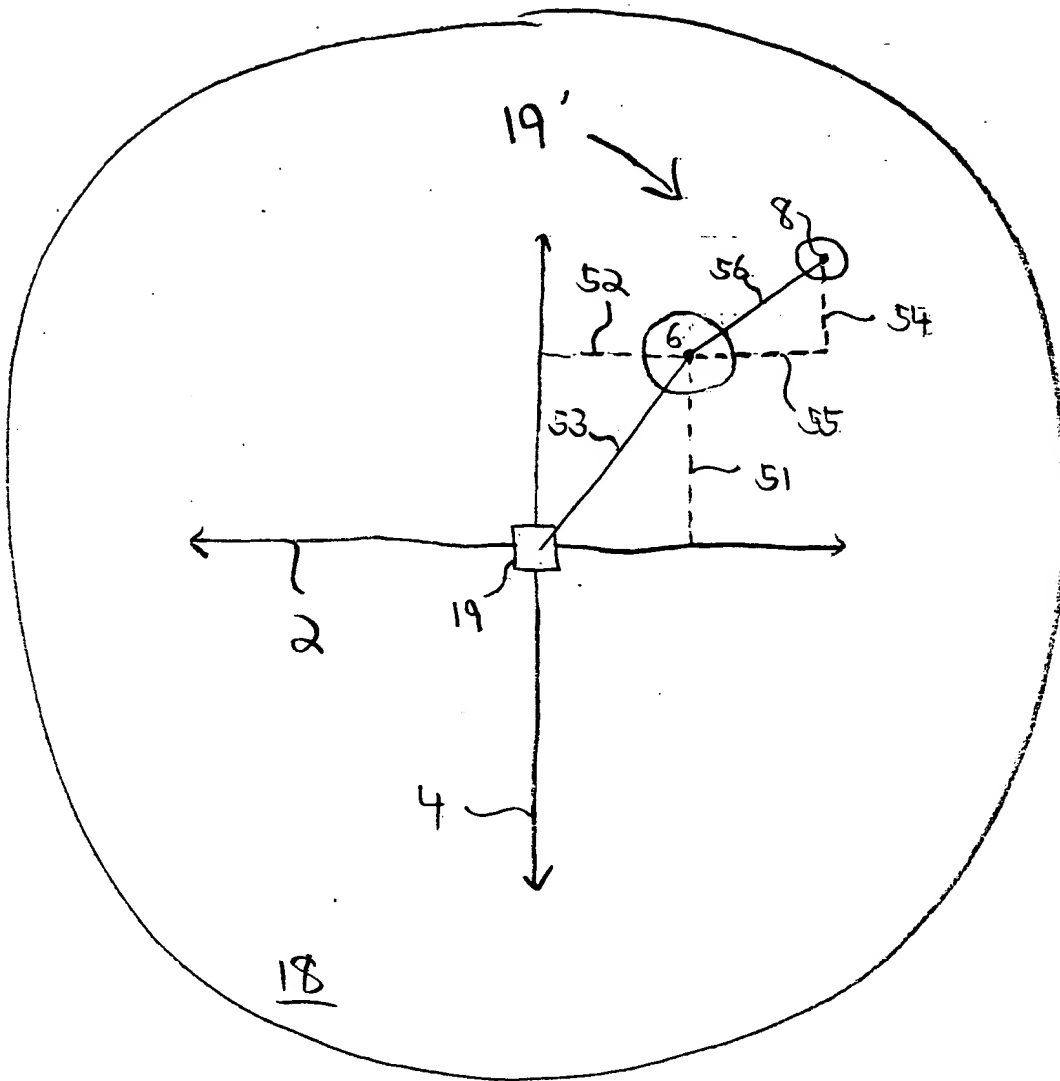


FIG. 6

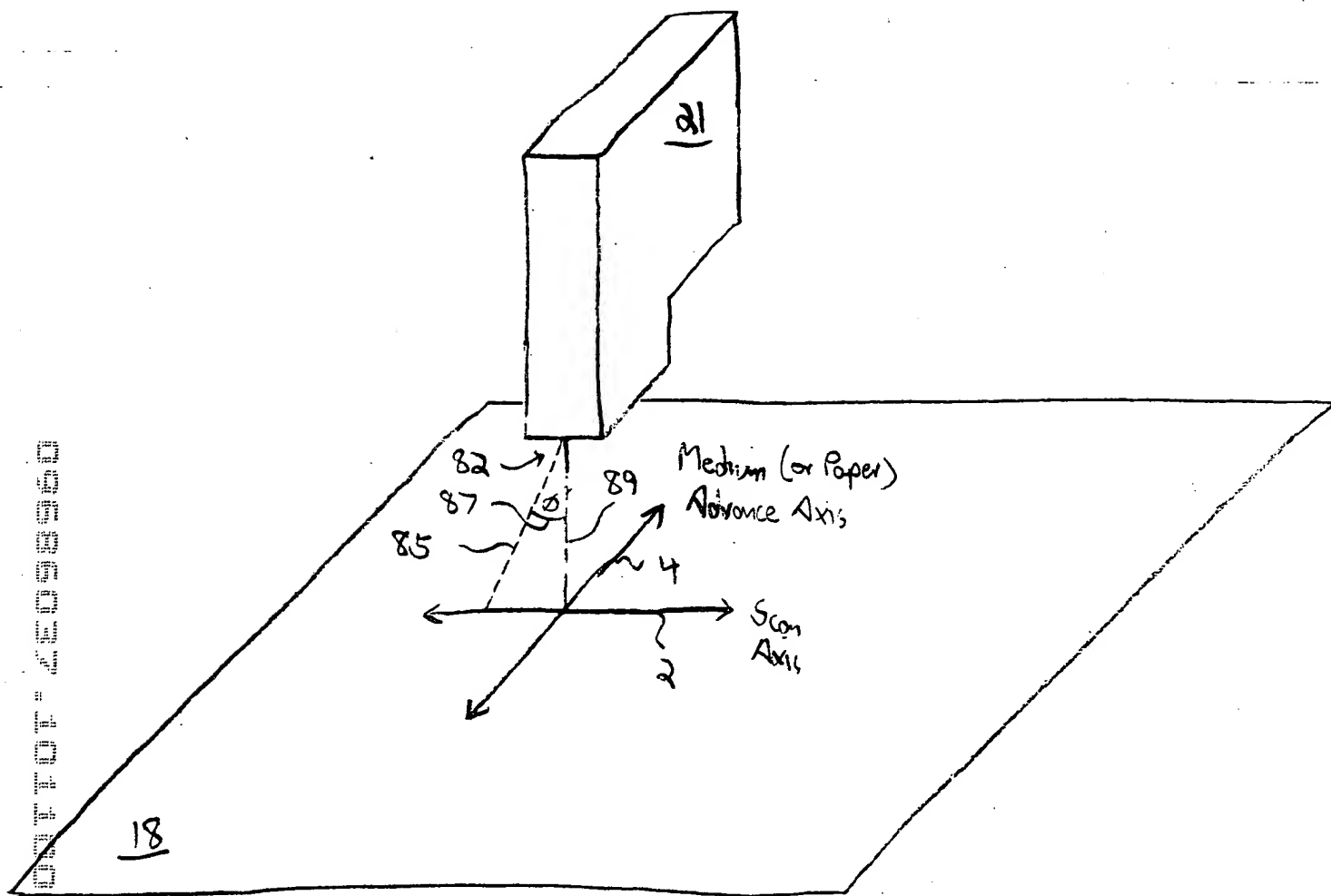


FIG. 7

DOT Scan direction

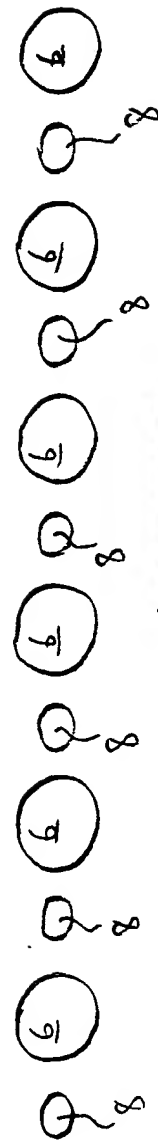
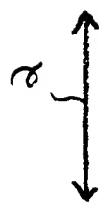
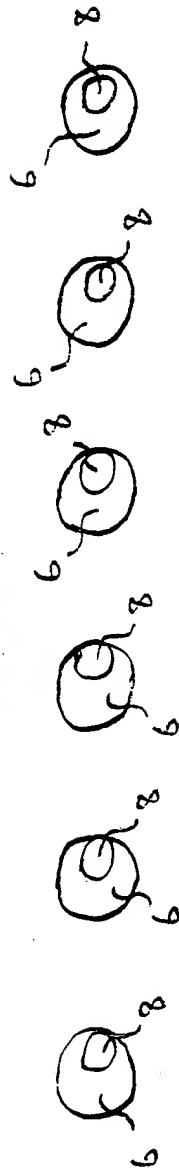


FIG. 8A



FIG. 8B

Scan direction (forward)



Scan direction (reverse)



FIG. 8C

FIG. 9A



Circular Bore, No Nozzle Tilt

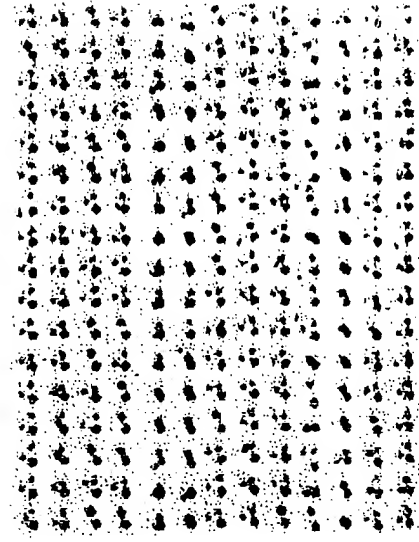
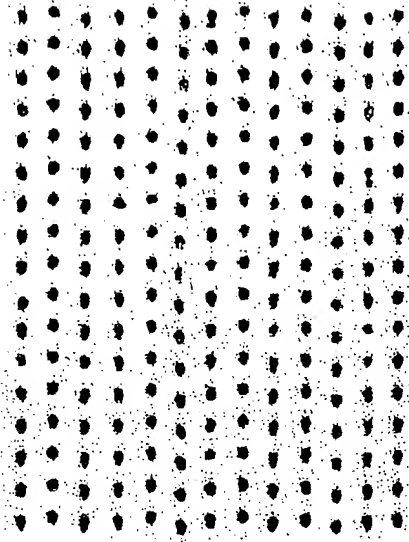


FIG. 9B

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FIG. 9C



Asymmetric Bore and/or Nozzle Tilt

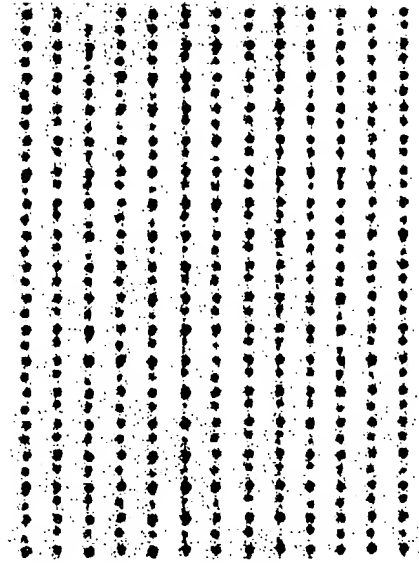
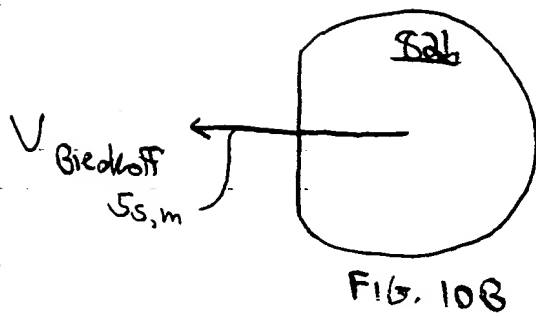
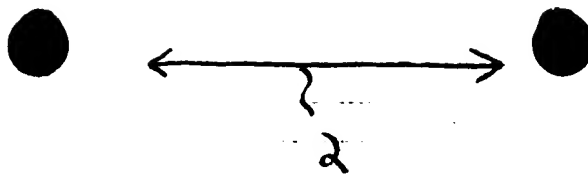
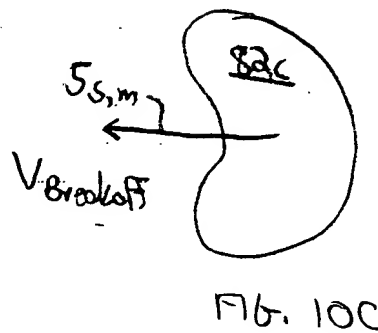


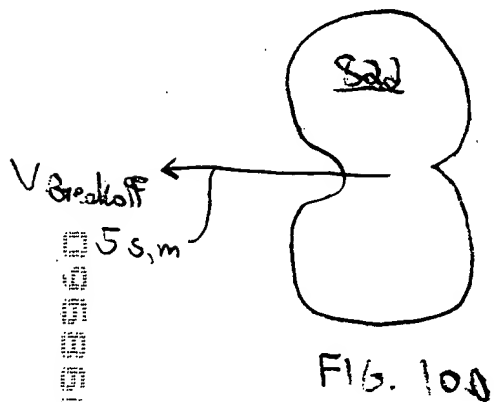
FIG. 9D



Lopsided Circle



Cashew



Lopsided Figure-8

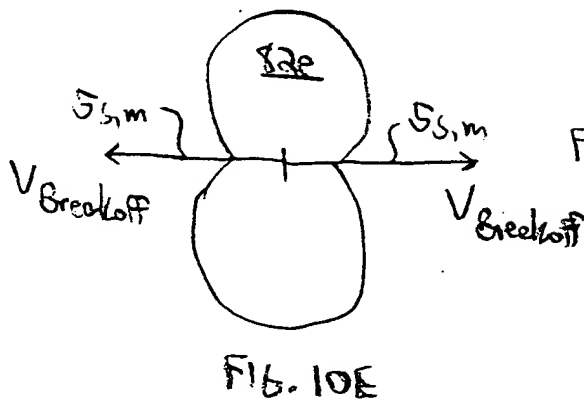
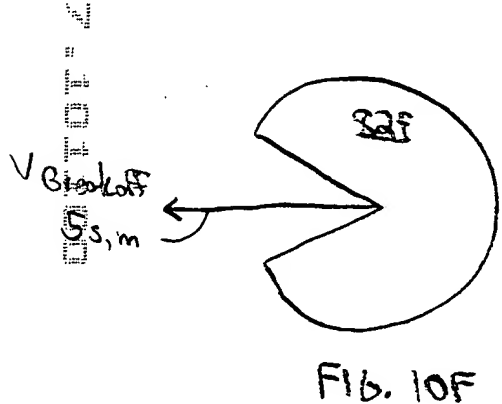
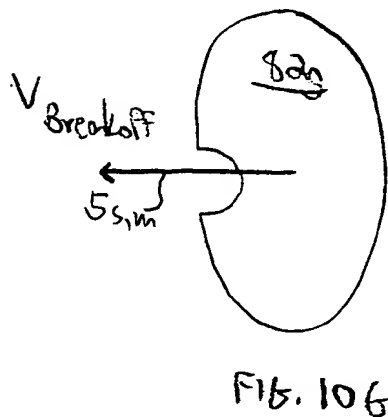


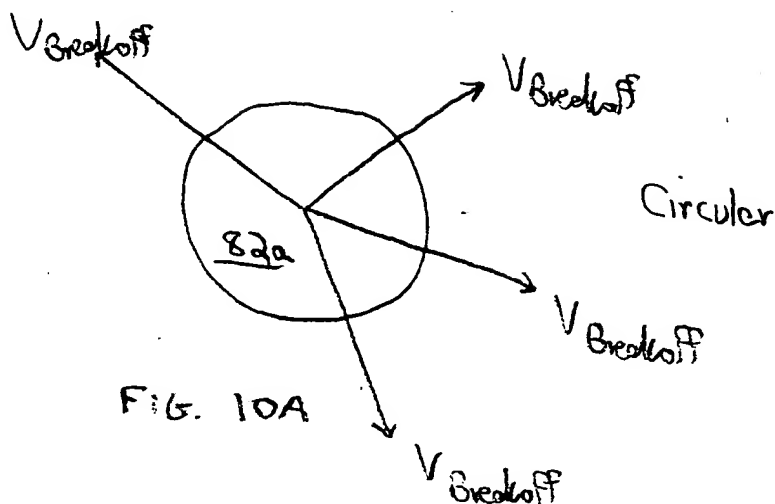
Figure-8



Pie-shaped



Lopsided Cashew



Circular

200

FIG. 11

START

Provide a printhead with nozzles whose bore axes are tilted from orthogonal (with respect to the plane of the medium) along the scanning axis in the forward or rearward direction according to one of the following configurations:

Odd Nozzles	Even Nozzles
Forward	Forward
Forward	Rearward
Rearward	Forward
Rearward	Rearward

Move the printhead relative to the print medium along the scanning axis in the forward or rearward direction

While moving, controllably eject main drops from selected nozzles onto the medium with a first trajectory

Responsively eject satellite drops from the selected nozzles onto the medium with a second trajectory which has the same displacement in the medium advance direction as the first trajectory

Advance the print medium relative to the printhead in the medium advance direction

Printing complete ?

Yes

END

No

Type of Printmode ?

Bidirectional

Unidirectional

Reverse the direction of printhead motion

Move the printhead in the opposite direction without printing